



1U4

SHARP-CUTOFF PENTODE

MINIATURE TYPE

1U4

GENERAL DATA**Electrical:****Filament, Coated:**

Voltage 1.4 dc volts
 Current 0.05 amp

Direct Interelectrode Capacitances:

Grid No.1 to plate^o 0.01 max. μ f
 Grid No.1 to filament (-) &
 grid No.3 & internal shield,
 and grid No.2^{*} 3.6 μ f
 Plate to filament (-) &
 grid No.3 & internal shield,
 and grid No.2^{*} 7.5 μ f

Characteristics, Class A₁ Amplifier:

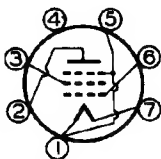
Plate Voltage 90 volts
 Grid-No.2 Voltage 90 volts
 Grid-No.1 Voltage 0 volts
 Plate Resistance (Approx.) 1 megohm
 Transconductance 900 μ hos
 Plate Current 1 ma
 Grid-No.2 Current 0.5 ma
 Grid-No.1 Voltage (Approx.) for
 transconductance of 10 μ hos -4 volts

Mechanical:

Mounting Position Any
 Maximum Overall Length 2-1/8"
 Maximum Seated Length 1-7/8"
 Length, Base Seat to Bulb Top (Excluding tip) . 1-1/2" \pm 3/32"
 Maximum Diameter 3/4"
 Bulb T-5-1/2
 Base Small-Button Miniature 7-Pin (JETEC No.E7-1)

Basing Designation for BOTTOM VIEW 6AR

Pin 1-Filament (-),
 Grid No.3,
 Internal
 Shield
 Pin 2-Plate
 Pin 3-Grid No.2
 Pin 4-No Connection



Pin 5-Filament (-),
 Grid No.3,
 Internal
 Shield
 Pin 6-Grid No.1
 Pin 7-Filament (+)

AMPLIFIER - Class A₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE 110 max. volts
 GRID-No.2 (SCREEN) VOLTAGE 110 max. volts

^o Without external shield.^{*} With external shield JETEC No.316 connected to pin No.1 or pin No.5.

←Indicates a change.

NOV. 5, 1954

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DATA

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IU4

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GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value 0 max. volts

→ TOTAL CATHODE CURRENT 6 max. ma

Typical Operation as Resistance-Coupled Amplifier:

See *RESISTANCE-COUPLED AMPLIFIER CHART No.3*
at front of this Section

→ Indicates a change.

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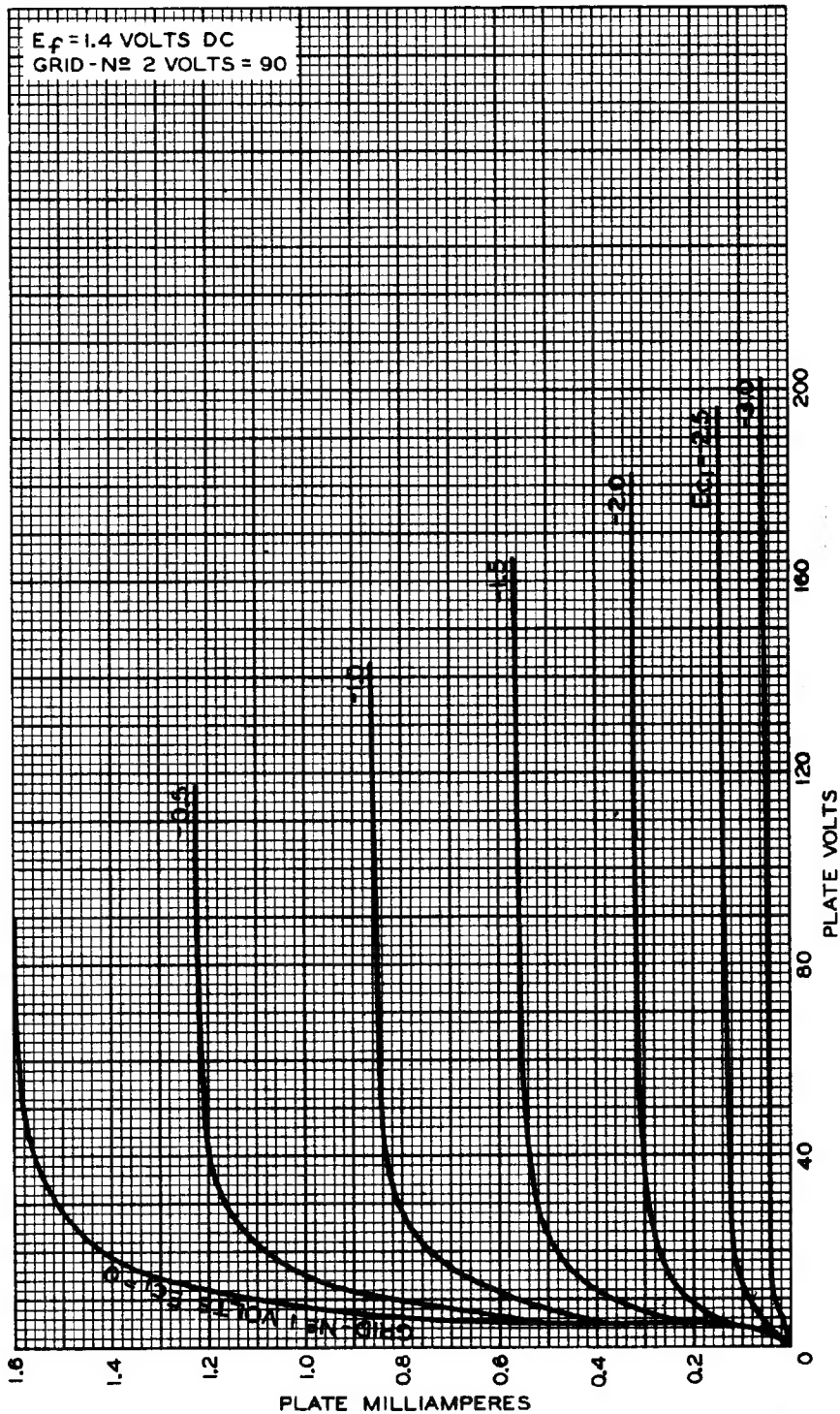
DATA



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AVERAGE PLATE CHARACTERISTICS



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92CM-6669RI

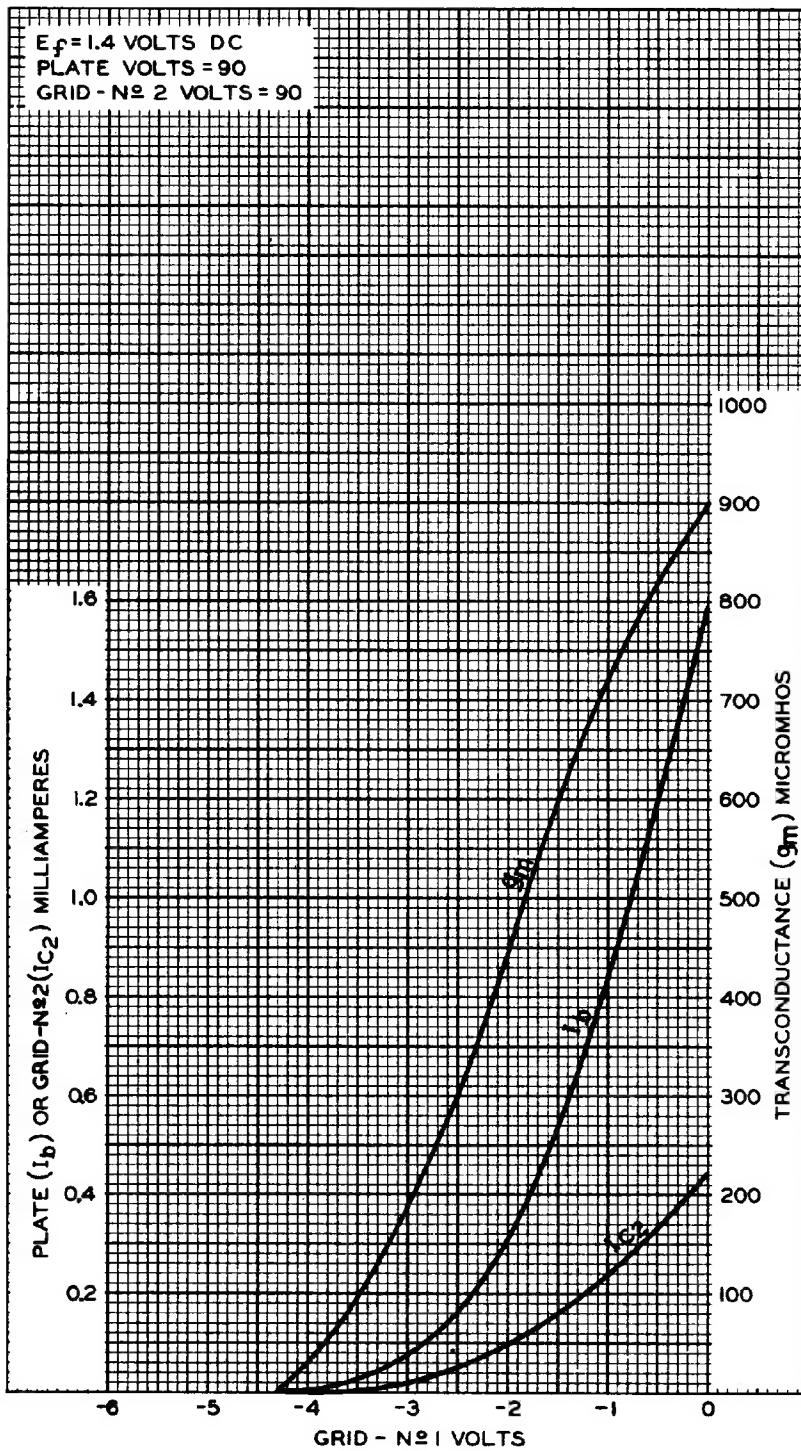
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AVERAGE CHARACTERISTICS



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